

# BASICS OF MUTATION BREEDING



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# BASICS OF MUTATION BREEDING



**Readership** : the book is a very conceptual and basic book meant for all those related to breeding and genetics, propagation, biotechnology of plants.

The book covers information on various types of mutagens and their effects, procedures for using mutagens for crop improvement, types of mutations (micro and macro) with statistical techniques to handle the mutation population.

The subject matter presented in this book will be useful for both undergraduate and post graduate students of agriculture.

## CONTENTS

- Mutation and crop improvement
- Classification of mutagens and their effects
- Procedure for mutation breeding
- Effect of mutagens on germination and survival in M1 generation
- Chlorophyll mutations
- Macromutations
- Micromutations
- Mutagenic effectiveness and efficiency
- Correlation between M1 and M2 generation
- Variability parameters in M2 and M3 generations in sesame
- Heritability and genetic advance as percent of mean in M2 and M3 generations in sesame
- Frequency distribution in M2 and M3 generations in sesame

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